

**R. Thiyagarajan**

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**CAREER OBJECTIVE:**

To achieve a respective and responsible position in a firm with my engineering excellence. To work hard to enhance my knowledge and skills to achieve the organization goals.

**PROFESSIONAL QUALIFICATION**

Exam/Degree	Year	Name of Institute	Board	Percentage
BE -Mechanical Engg	2013	Government College of Technology Coimbatore	Anna University	7.35 CGPA
Diploma	2002	Institute of Tool Engineering Dindigul	State Board	88%
SSLC	1999	M.S.P.Solai Nadar Mr. Hr. Sec. School Dindigul	State Board	88.5%

**KEY SKILLS**

- Good exposure to Design, Manufacturing process of Sintering, Stamping, Machining, Tool & Dies, Jigs & Fixture
- 8 years of experience in Design and Development of Sintered components & 5 Years' experience in stamping new product development & 3 years' experience in should cost estimation and price negotiations.
- Proficient in Cost Estimation of Automotive and Industrial Parts (Sheet Metal, Casting, Sintering, Plastic and Machining commodity)
- Good knowledge on Product Manufacturing process and Cost Distribution Analysis.
- New product/process development, Strategic Sourcing and Vendor Development
- Materials Planning, Schedule Release, Buyer activities etc.,
- Proficient in Program Management (Project Planning, Execution & Tracking, Risk & Analysis, Project Deliverables, Customer Interaction, Team Mentoring)
- Product Teardown, Cost Benchmarking Analysis and Value Engineering
- Onsite assessment (USA, CHINA, ITALY) of key high spends suppliers for process optimization and cost reduction

**PRESENT ORGANIZATION : HCL TECHNOLOGIES LIMITED**

Department : Cost Engineering- Engineering Services  
Designation : Technical Lead - Cost Planning  
Period : From October 2015 to till present  
Nature of work : Part and Tooling Cost Estimation, Project Coordination  
Key Customers Handled : **EATON, XYLEM Inc., Modine, Getrac, Nikon**

## ROLES AND RESPONSIBILITY:

- Study and understand all relevant project documents relating to the cost management of allocated project and BOM preparation.
- Developed 500 + should Cost Models for Casting, Stamping, Sintering, and Plastics Commodity across various product ranges which include Clutch, Transmission and Pumps.
- Preparation of sensitivity analysis of cost distribution for supplier negotiations.
- Negotiation with high spend suppliers of clients and achieved an annual savings value of \$ 20 Million to our key clients (EATON, XYLEM INC.)
- Experience in preparing should costing automated templates, cycle time calculators, Machine hour rates calculators.
- Good Knowledge on geo wise cost modeling (Global Raw material, labor rates, MHR etc)
- Estimation of Material cost, Process Cost, Sales, General and Administrative Expenses associated with the product cost for various regions (**APAC, EMEA, NA, UK**)
- Estimation of Machine Hour Rates of Press Machines, Injection Molding Machines Welding and the various cost elements associated with it (**Fixed, Variable cost, Machine Overheads, Investment**)
- Onsite assessment of suppliers to understand the manufacturing process to develop supplier specific cost models and value opportunities for process optimization.
- Development of should cost model in Cost Management Software **APRIORI**.
- Performing Project Management Activities for Key customers for Planning, Execution and Deliverables (**Effort and Schedule estimation and tracking in PM Smart Tool, Resource Management, Program Work Flow Preparation, Statement of Work etc.,**)
- Opportunities for Supplier optimization / Resourcing @ LCC Countries for cost reduction.
- White box analysis, Teardown and Bench marking analysis report and conduction Teardown workshops on Value Engineering and Cost reduction opportunities.
- Conducting Teardown and Benchmarking workshops, Ideation Sessions for generating VAVE and Cost reduction ideas.

## WORKSHOPS

- Supplier Workshop at Apex Metal Casting at Shanghai, China for Data Capture & Process optimizations and Identified a value of \$0.63 Million.
- Teardown and Benchmarking Workshop at Sweden P-installation for Pumps accessories on Cost Benchmarking and Identified a value of \$ 1.3 Million
- Supplier Workshop at Huashuo at Ningbo, China and Sigma at Changzhou, China for Data Capture & Process optimizations.

## PREVIOUS ORGANIZATION : TVS-SUNDRAM FASTNERS LIMITED- HOSUR

Department	: Production Engineering – PED PM
Designation	: Senior Executive
Period	: From December 2013 to October 2015
Nature of work	: Product / Process development, Customer Interface

## **ROLES AND RESPONSIBILITY:**

- Responsible for project developments – Quality, Cost, Delivery
- Preparation of RFQ and presenting to customers.
- Conducting Technical reviews with customers
- Designing & Draft the tools & tool assembly layout for compaction & sizing, creating bill of material for the assembly. Tools include punch, die and supporting elements for forming iron part by powder pressing/compaction and making tools for re - pressing/coining/sizing.
- Establishing new Manufacturing set up
- Establishing Manufacturing process- CNC machining, Grinding, Lapping, honing and Milling, and different methods of press tools, Jigs and fixtures manufacturing.
- Conducting proto type and PAP trials and to submit samples & PSW to customers
- Preparation of work instructions, SOP for all the major primary & secondary processes.
- Preparation of TS 16949 documentation like Control plan, PFD, PFMEA, Product test certificate, MSA, SPC reports & Establishment of Quality systems/ Customer specific requirements.
- Supplier evaluation, Audit executions & Driving improvements
- Authority of approving Mechanical & Hydraulic press tool design in Metal forming technology in new product development

## **PREVIOUS ORGANIZATION –PRICOL LIMITED- PLANT3 COIMBATORE**

Department	: Design and Development- Sintered component Mfg shop
Designation	: Engineer
Period	: From November 2007 to November 2013
Nature of work	: Design and Development of sinter component

## **ROLES AND RESPONSIBILITY:**

- Develop Tool design and process design concepts
- Interacting with customer for new component development and freezing technical specification.
- Providing technical support to tool manufacturing and compacting process, sizing process and secondary machining process.
- Vendor development activities for new development products and cost reduction.
- BOM & Process route creation for new products through SAP
- Maintaining ISO TS/16949 requirements.
- Poke- Yoke implemented in various secondary operation
- Execution of Part trial and Secondary operation trial along with Customers for New Projects.
- Implementing Loss & Cost reduction KAIZENS for Process & Quality Improvement.

## **PROJECTS HANDLED**

- Development of Oil Pumps rotor with Tip clearance of 0.04 to 0.08 for Piaggio Italy
- Development of Fly Weight assembly for Bosch India – Sintered Part Projection Welding – Award winning part in PM conference.
- Development of Retainer Kick Spindle, Arm pin Assembly & Bush for Hero Moto corp. India

## **PREVIOUS ORGANIZATION –ACORN ENGINEERING- COIMBATORE**

Department : Tool Room – New tool development  
Designation : Tool Engineer  
Period : From June 2005 to November 2007  
Nature of work : Design and Development of Press tools & molds

### **ROLES AND RESPONSIBILITY:**

- New Tool trail and Troubleshooting & Tool Inspection and approval process
- Serving as die maintenance in charge and associated with Maintenance of dies before and after production & Maintaining of die history cards, critical spares and die related documents

### **PROJECTS HANDLED**

- Development of 16 mm sheet thickness of Industrial chain components for LGB Rolon

## **PREVIOUS ORGANIZATION –L.G.BALAKRISHNAN & BRO LTD- COIMBATORE**

Department : Tool Room – New tool development  
Designation : Tool Engineer- Trainee  
Period : From November 2002 to May 2005  
Nature of work : Design and Development of Press tools

### **ROLES AND RESPONSIBILITY:**

- New Tool Follow up and Assembly of tool, Tool trail and Trouble shooting
- Vendor Development & Material planning, tool cost work out

### **PROJECTS HANDLE**

- Development of 10mm sheet without secondary shearing in blanking operation

## **PERSONAL PROFILE:**

Date of Birth : 09-October-1983  
Gender : Male  
Father's Name : K.B. Rajaram  
Marital Status : Married  
Nationality : Indian  
Languages Known : Tamil, English & Sourashtra  
Contact Mobile Number : 09994109501, 07845550418  
Passport Number : P6531767 Valid up to- 31-Jan-2027

Place: yours faithfully,

Date: R. Thiagarajan